

CLAIMS

1. Radiant device comprising:  
a supporting frame (2);  
at least a radiant element (4) having two mutually op-  
5 posed ends (4a) provided with electrical connection  
terminals (7) and engaged to hooking groups (3) of the  
supporting frame (2);  
characterized in that it further comprises an elastic  
element (9) placed between each end (4a) of the radi-  
10 ant element (4) and the hooking assembly (3), so as to  
couple elastically said radiant element (4) with the  
supporting frame (2).
2. Device according to claim 1, characterized in that  
each of the hooking assemblies (3) delimits a housing  
15 chamber (10) for the electrical connection terminals  
(7), and in that the elastic element (9) encloses the  
end (4a) of the radiant element (4) so as to seal said  
housing chamber (10).
3. Device according to claim 2, characterized in that  
20 the elastic element (9) has a portion shaped as a  
frustum of cone (11) coaxial to the end (4a) of the  
radiant element (4) and converging towards said radi-  
ant element (4) getting away from the hooking assembly  
(3).
- 25 4. Device according to claim 1, characterized in that

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the elastic element (9) has an inner tubular portion (12) associated to the end (4a) of the radiant element (4) and an outer collar (13) associated to the hooking assembly (3).

5 5. Device according to claim 4, characterized in that said elastic element (9) further comprises an intermediate portion basically shaped as a frustum of cone and developing from a first end (12a) of the inner tubular portion (12) as far as said outer collar (13).

10 6. Device according to claim 5, characterized in that said inner tubular portion (12), outer collar (13) and intermediate portion of said elastic element (9) delimit a ring-shaped cavity (14) pointing towards the corresponding hooking assembly (3).

15 7. Device according to one or more claims 4 to 6, characterized in that the inner tubular portion (12) is elastically fitted onto the end (4a) of the radiant element (4).

20 8. Device according to one or more claims 4 to 7, characterized in that the outer collar (13) has a circumferential groove (13a) for the engagement with a protrusion (15) of the hooking assembly (3) delimiting an opening (16) facing the housing chamber (10).

9. Device according to claim 8, characterized in that  
25 the circumferential groove (15) is obtained close to

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an edge (13b) of the outer collar (13) opposed to the first end (12a) of the inner tubular portion (12).

10. Device according to one or more claims 5 to 9, characterized in that the outer collar (13) converges  
5 towards the radiant element (4) getting away from the corresponding hooking assembly (3).

11. Device according to one or more claims 1 to 10, characterized in that the elastic element (9) is wholly made of a silicone-based elastomeric material.

10 12. Device according to one or more claims 2 to 11, characterized in that each of the hooking assemblies (3) of the supporting frame (2) comprises a first and a second cap (17, 18) joined to each other so as to define the housing chamber (10).

15 13. Device according to claim 12, characterized in that the second cap (18) has an opening (16) facing the housing chamber (10) for the engagement with the elastic element (9).

14. Device according to one or more claims 2 to 13,  
20 characterized in that the supporting frame (2) further comprises at least a connecting rod (20) arranged between the hooking assemblies (3), so as to house electrical conductors (21) connecting the electrical connection terminals (7) of the ends (4a) of the radiant  
25 element (4).

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15. Device according to one or more claims 1 to 14, characterized in that the supporting frame (2) further comprises a reflecting plate-shaped body (22) basically parallel to the longitudinal development of the  
5 radiant element (4) and having mutually opposed end edges (22a) engaged each to one of the hooking assemblies (3) of the supporting frame (2).

16. Device according to claim 15, characterized in that the reflecting plate-shaped body (22) has a plu-  
10 rality of openings (23) on each of the elastic elements (9).

17. Device according to claim 16, characterized in that each of the hooking assemblies (3) further comprises a plurality of engaging hooks (24) with the  
15 openings (23) of the reflecting plate-shaped body (22), so as to block said reflecting plate-shaped body (22) to the hooking assembly (3).

18. Device according to claim 17, characterized in that the engaging hooks (24) are placed on the second  
20 cap (18) and held against the reflecting plate-shaped body (22) by the fastening elements (27) between the second cap (18) and the first cap (17).

19. Device according to one or more claims 1 to 18, characterized in that said radiant element (4) com-  
25 prises:

a central body (5) to be electrically heated;  
two electrical conductors (6) electrically connected  
to said central body (5) on the opposed ends (5a) of  
the latter;  
5 an envelope (8) made of transparent material extending  
around said central body (5) and around said conduc-  
tors (6), said central body (5) defining on said enve-  
lope (8) a central area (A) subject to heating and  
said conductors (6) defining peripheral areas (B) to  
10 be engaged by the elastic elements (9).

20. Device according to claim 20, characterized in  
that each peripheral area (B) of the envelope (8) de-  
fined by the conductor (6) of said radiant element (4)  
extends longitudinally for not less than 25 mm.